









## ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/954,531

DATE: 05/02/2002 ( · 5

TIME: 17:17:23

Input Set : F:\Avalon-77.txt

Output Set: N:\CRF3\05022002\I954531.raw

5 <110> APPLICANT: Weaver, Zoe 7 <120> TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cancer Gene Sets 10 <130> FILE REFERENCE: 689290-77 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/954,531 C--> 12 <141> CURRENT FILING DATE: 2002-05-02 12 <150> PRIOR APPLICATION NUMBER: US/60/233,133 13 <151> PRIOR FILING DATE: 2000-09-18 15 <150> PRIOR APPLICATION NUMBER: US/60/234,009 16 <151> PRIOR FILING DATE: 2000-09-20 18 <150> PRIOR APPLICATION NUMBER: US/60/234,034 19 <151> PRIOR FILING DATE: 2000-09-20 21 <150> PRIOR APPLICATION NUMBER: US/60/234,509

22 <151> PRIOR FILING DATE: 2000-09-22 24 <150> PRIOR APPLICATION NUMBER: US/60/234,567

25 <151> PRIOR FILING DATE: 2000-09-22

27 <160> NUMBER OF SEQ ID NOS: 1392

29 <170> SOFTWARE: PatentIn version 3.0

31 <210> SEQ ID NO: 1 32 <211> LENGTH: 326

33 <212> TYPE: DNA

34 <213> ORGANISM: Homo sapiens

36 <400> SEQUENCE: 1

37 gegeaccegg tteagetege etttettgge eagagggeee ggttggaete aegggegggg 60 39 catgatggtg gtgggtacgg gcacctcgct ggcgctctcc tccctcctgt ccctgctgct 120 41 ctttgctggg atgcagatgt acagccgtca gctggcctcc accgagtggc tcaccatcca 180 43 gggcggcctg cttggttcgg gtctcttcgt gttctcgctc actgccttca ataatctgga 240 45 gaatettgte tttggcaaag gatteeaage aaagatette cetgagatte teetgtgeet 300 326 47 cctgttggct ctctttgcat ctggcc

50 <210> SEQ ID NO: 2 52 <211> LENGTH: 335

54 <212> TYPE: DNA

56 <213> ORGANISM: Homo sapiens

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74 <210> SEQ ID NO: 3

76 <211> LENGTH: 235

78 <212> TYPE: DNA

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Input Set : F:\Avalon-77.txt

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89 gaagaattgt gccttgcata ttacttgagc ttaaactgac aacctggatg taaataggag	180
91 cctttctact ggtttattta ataaagttct atgtgatttt ttaaaaaaaga aaaaa	235
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96 <211> LENGTH: 308	
98 <212> TYPE: DNA	
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107 tgtttgggga cacaggtctc tgggctcatt tcttttctg aggattcata taattgccta	120
109 gtttttggct tagaggttgg tccttccctg gtttaatgat gcttttgttc agactgtcct	180
111 ctaggacttg aatttgaagc agaaacagaa cagcacctga tcctcagtta tactgcaaag	240
113 cagggcctca gaaagggtaa ctccaattac tgactttcac ctaaggtgaa aaagcatccg	300
115 gettettt	308
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122 <212> TYPE: DNA	
124 <213> ORGANISM: Homo sapiens	
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131 cagatggaag gtgcacacgc tectgtetec tecteactet gecaegttea ettggetttt	120
133 tcattggtac ctaggaattt aagaatatcg aagcgagaca cgtaacaaac catagatgag	180
135 cagactecca cacegggttt tettgeeegt etttaaggea etgtttetaa attttgaaet	240
137 tagetetgaa teeccaagaa ettgageaca geaagggttg etgagetget gtegeegeag	300
139 ccctggcccc tggtgctgga gctgcagcac ctttgggaga ggtcctgcgt cgtcctcagc	360
141 tgcgtcgctg tgaactcccg ctctccactg tgttcctcag tgtctgcttt tcaggaagtc	420
143 tgctgtgacc tttgcccaac ttctgagctc ctcagggact aggaacaatt tcagtagctt	480
145 tgccct	486
148 <210> SEQ ID NO: 6	
150 <211> LENGTH: 379	
152 <212> TYPE: DNA	
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161 cctacagaca accaagcact aatcccctta gtaccaagaa aggggagcca ggatttagtc	120 180
163 ctggcccagc ccagagctgg gacctggagc acgatctgtt gacttccctg ggtaggacac	240
165 tgccacctct gggctcaggt cctcatgcct ccaaatggca tctagagttt gagcagcctt	
167 cttggctgag gcaggcctag cctgtggagc gggctagggc caggagcatt tggtgccct	300 360
169 ccatgttgca atgcaaacac cttcaccact ggggcagtgg ggagagatgg ctatattaat	379
171 aaaataacgt gtgtctttc	3/9
174 <210> SEQ ID NO: 7 176 <211> LENGTH: 456	
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178 <212> TIPE: DNA 180 <213> ORGANISM: Homo sapiens	
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	60
185 catatataca tgcagtctgc ttgattatca gcaaaatggt cagcctttat cagatagttt	00

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Output Set: N:\CRF3\05022002\I954531.raw

		· · · · · · · · · · · · · · · · · · ·					
	187	cttcatgtgg agttcatctg catgtggccc ttactctgaa gcctcttcct gatctggagc	120				
	189	cacagtetgt etgtetteca gtteatetea gteetegaga aaggeeettt aaatatgtea	180				
	191	ctttcccatt ttcctttaac catgggttgt gtgagccaga aagagctttg agaaagatgg	240				
		ctgcttccac cagggtggag gcttctaggt ctgcatgatg atggggcccg tttctggcca	300				
		qaqqqtqqct ctqqqaqcaq ttqtqctqcq qqcttqctqq qqqaqaactc taactqttqc	360				
		agaaacagag cttcatggct tgcttaaatt acttagctgg aatattttaa agtgtcagat	420				
		aatgtgatgt acaaagagag tatgccgatg catttc	456				
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		4 <211> LENGTH: 303					
		5 <212> TYPE: DNA					
		<213> ORGANISM: Homo sapiens					
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		<222> LOCATION: (1)(303)					
		<pre>3 &lt;223&gt; OTHER INFORMATION: n=a,t,g or c</pre>					
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		gagaagaaag agaaatgatg cagctggtgc ccgagcctct cagggccaga ccagacagat	120				
		gggggctggg cccacacagg cgtgcaccgg gtagagngca caggtaggcc aaggggnagc	180				
W>	229	tcccaggaca gggcaagggg gcagcangga tacctgcnag ccagggnctc tntggcctnt	240				
W>	231	nttttcctan tccnttttt tggcccttct tttttntntg ccgtacancn tgcaggcaaa	300				
W>	233	agn	303				
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	238	<211> LENGTH: 297					
	240	<212> TYPE: DNA					
		<213> ORGANISM: Homo sapiens					
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		<221> NAME/KEY: misc_feature					
		<222> LOCATION: (1)(297)					
		2 <223> OTHER INFORMATION: n=a,t,g or c					
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		tagggagcaa aaaataagtn agtnetgett ttagttagtt aacettgtte ttttettaaa	120				
		tagtacactg catggtattt aatattccag gaagcatggg atttnatttt gcttgatttg	180				
W>		qqcacatqaa ataataqctc taqqaaaatq cqcatcttaa tqactctttg taaaqagagg	240				
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			231				
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		<211> LENGTH: 363					
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		<213> ORGANISM: Homo sapiens					
		<220> FEATURE:					
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		tgaatatcat attgtatcat caatgctgat attttaactg agttggtctt taggtttaag	120				
M>		atggataaat gaatatcact acttgttctg aaaacaggtt tgttgctttt natctcgctg	180				
	295	cctagattga aatattttgc tatttcttct gcataagtga cagtgaacca attcatcatg	240				

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Input Set : F:\Avalon-77.txt
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	297	agtaagetce ettetgteat ttt	cattgat	ttaatttgtg	tatcatcaat	aaaattgtat	300	
	299	gttaatgctg gaaagaaaaa aag	aagaaag	aaagaaacca	tccctgtcct	tcagtttata	360	
	301	atc					363	
	304	<210> SEQ ID NO: 11						
	306	<211> LENGTH: 335						
	308	<212> TYPE: DNA						
	310	<213> ORGANISM: Homo sapi	ens			•		
	314 <220> FEATURE:							
	316	316 <221> NAME/KEY: misc_feature 318 <222> LOCATION: (1)(335)						
	318							
		<223> OTHER INFORMATION:	n=a,t,g	or c				
		<400> SEQUENCE: 11						
		ctagaataaa ggggttgatt agt					60	
M>		gantcagect ettectetat aaa	_		_	_	120	
		atgtatagta cactctataa atg	_			_	180	
		acattgtccc aacaaatgtt tac				-	240	
		ttgtttttat gtgtgaatga agc			gcaactgaga	aggtacaagg	300	
		tgactgtttt tgtgagccag tga	tgttttc	aatgc			335	
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		<212> TYPE: DNA						
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		<400> SEQUENCE: 12						
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		tgattttcaa tgtttcttcc aaa		_	_		120	
		cctggggtgc cttgggtcag gac					180	
		atattgacga tataaaatgg gaa					240	
		aagagaaaga gactttcaag gaa					300	
		aaattaagca tctgaagacc gat					360	
		aaggaaaaaa tgtgttggaa aaa					420	
		caaagatctc ctggacttgt atc					480	
		accccgaatt aaacctgtat caa					540	
		cacacagtg gaccaccage etg				_	600	
		gcaaggaatc cagtgtcgag cct					660	
		tcattggcat atgtggagga ggc	-				720	
		atatcaccaa aaggaaaaaa cag					780	
		cccacagagt agctactgaa gaa					840	
		ctcagaatcc agcaacttcc caa					900	
		ctagtcatcg tececegect ect					. 960 1020	
		ctgctccgtc gggcacacaa gtt					1020	
		ttcagccaaa acctcccatg ggg						
		aagatagaaa ctgtctttt caa					1140 1200	
		tatccgtact tccatgaggt gtt					1260	
		ggccacagcc acctctgcat ctt tctcctcaga gagctccatc aca					1320	
							1320	
		gtgtagagga ccgagccaga aat atgcgataaa tcaagtgatt ggt					1440	
	300	gagactotgg agtttcttat gtg	gugueug cootaat	ggacacttcc	ccaccat cct	ataaataaaa	1500	
		gtgaaataaa agetttgaet ag	coccyyt	ggacacttgc	Coaccatoot	y cyay caaaa	1522	
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Input Set : F:\Avalon-77.txt

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    409 <213> ORGANISM: Homo sapiens
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    417 <222> LOCATION: (1)...(531)
    419 <223> OTHER INFORMATION: n=a,t,g or c
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    426 atcaaactgt ggtgtaaata gattctcagt gaattctggt attcagactc tattccacta
                                                                             120
    428 gtgaaagaac cattttttaa acttcccttg ccttttttat ttatttaatt ttcttggttt
                                                                             180
    430 ggagatgtca gtcccaaaca ccagagtctg tacttttcta taacacagct cagattaagg
                                                                             240
    432 tagggcatat gcaacggagg ttctcacctc cctaaagaag ggacttgaat tttagggact
                                                                             300
    434 ttaattcacc cctccttcaa tacaactttc ccccttcttg tttgcacatg ccaagataac
                                                                             360
    436 tgcttttatg caggctgtac ccccttgaaa aatcctttct acagtgctgg tcacaaaaga
                                                                             420
W--> 438 gcccaagttc ggcctcctac ccggnattgc tgacttgaat tcanagtcgc cgagtctacc
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W--> 440 tagetttett ggaageagte tegeaaaatn tetatttgtn egteactaat g
                                                                             531
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    445 <211> LENGTH: 381
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    449 <213> ORGANISM: Homo sapiens
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    456 ttatcctcat ttgatttggc cagaaagtag gtaatatgca ttgattggct tctgattcca
                                                                             120
    458 atteagtata geaaggtget aggtttttte ettteeceae etgtetetta geetggggaa
                                                                             180
    460 ttaaatgaga agccttagaa tgggtggccc ttgtgacctg aaacacttcc cacataagct
                                                                             240
                                                                             300
    462 acttaacaag attgtcatgg gagctgcaga ttccattgcc caccaaagac taggaacaca
    464 cacatateca tacaccaaag ggaaaggaca atttetggaa atgetgttte ttetgggtgg
                                                                             360
                                                                             381
    466 gttccctctt ctgggcttgc t
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    471 <211> LENGTH: 2894
    473 <212> TYPE: DNA
    475 <213> ORGANISM: Homo sapiens
    479 <220> FEATURE:
    481 <221> NAME/KEY: misc_feature
    483 <222> LOCATION: (1)...(2894)
    485 <223> OTHER INFORMATION: n=a,t,g or c
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    492 gggtcccgag gtcagccgag atttctcagg tccctccggc cccctccctg gagtccacag
                                                                             120
    180
                                                                             240
    496 qtggatcagg aagtgaagct caaggttgat tctttcaggg agcggatcac aagtaaggca
                                                                             300
    498 gaagacttgg tggcaaattt tttcccaaag aagttattag aacttgatag ttttctgaag
                                                                             360
    500 gaaccaatct taaacatcca tgacctaact cagatccact ctgacatgaa tctcccagtc
                                                                             420
    502 cctgacccca ttcttctcac caatagccat gatggactgg atggtcccac ttataagaag
    504 cgaaggttgg atgagtgtga agaagccttc caaggaacca aggtgtttgt gatgcccaat
                                                                             480
    506 gggatgctga aaagcaacca gcagctggtg gacattattg agaaagtgaa acctgagatc
                                                                             540
    508 cggctgttga ttgagaaatg taacacgcct tcaggcaaag gtcctcatat atgttttgac
                                                                             600
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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

 VERIFICATION SUMMARY
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:120
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:180
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:240 L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:300
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:120
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:420 L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:480
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:2220
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:2700
L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:120
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:180
L:888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:240 L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:360
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420
L:944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:600
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60
L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:360
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:420
L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:420
L:1300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:480
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:540
L:1330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:120
L:1332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:180
L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:240
L:1776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60
L:1824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:2590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:300
L:2614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
L:2622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:240
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:300 L:2626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:360
L:2680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:120
L:2686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:300
L:2688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:360
L:2856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:2858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:60
L:2864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:240
L:2868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:360
L:2904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:360
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L:3340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0 L:3374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0 L:3376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:60 L:3378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:120